

CLAIMS

What is claimed is:

1. A hose assembly comprising:
5 an inner fluoropolymer layer having a smooth inner surface; and
a jacket surrounding said inner fluoropolymer layer having a
corrugated outer surface.
2. The assembly according to claim 1, further characterized by
said jacket having a corrugated outer surface alternating with a smooth outer
10 surface.
3. The assembly according to claim 1, further characterized by
said inner fluoropolymer layer being melt extrudable.
4. The assembly according to claim 1, further characterized by
said inner fluoropolymer layer being chemically resistant to fuels and fuel
15 additives.
5. The assembly as set forth in claim 1, further characterized by
including at least one braided layer disposed between said inner and jackets.
6. The assembly as set forth in claim 1, further characterized by
including at least one braided layer disposed on said jacket.
- 20 7. The assembly according to claim 5, further characterized by
said braided layer comprising glass fibers.
8. The assembly according to claim 1, further characterized by
said polyamide material of said jacket including a material selected from the
group consisting essentially of: nylon alloy, nylon 6; nylon 6,6; nylon 11; and
25 nylon 12.
9. The assembly according to claim 8, further characterized by
said fluoropolymer material of said first layer including a material selected
from the group consisting essentially of: polytetrafluoroethylene;
perfluorinated ethylene-propylene; perfluoroalkoxy fluorocarbon resin; and
30 polyfluoroethylene, THV, modified fluoropolymer.

10. The assembly as set forth in claim 1, further characterized by said jacket being expanded or not expanded.

11. The assembly as set forth in claim 1, further characterized by said inner fluoropolymer layer being expanded or unexpanded.

5 12. The assembly as set forth in claim 1, further characterized by said jacket having spiral undulations on said outer surface.

13. The assembly as set forth in claim 1, further characterized by said jacket having circular undulations on said outer surface.

10 14. A method of making a hose assembly including the steps of: forming a smooth inner fluoropolymer layer; forming an jacket over the inner fluoropolymer layer while adhering said jacket and said first layer together; and corrugating said jacket.

15 15. The method as set forth in claim 14, said first forming a smooth inner fluoropolymer layer.

16. The method as set forth in claim 14, forming step being further defined as extruding the jacket over the smooth inner fluoropolymer layer.

17. The method as set forth in claim 14, further characterized by depositing at least one braided layer between said inner and said jackets.

20 18. The method as set forth in claim 14, said corrugating step further defined as etching the corrugation on the jacket.

19. The method as set forth in claim 14, said corrugating step further defined as forming a spiral corrugation on the jacket.

20. The method as set forth in claim 14, said corrugation step further defined as forming a circular corrugation on the jacket.

25 21. The method as set forth in claim 14, wherein said corrugating step includes injection molding the corrugations to the hose assembly.

22. A hose assembly comprising:
a fluoropolymer layer having a generally smooth inner surface
and a corrugated outer surface.

23. The hose assembly according to claim 22, wherein said first layer has a corrugated outer surface alternating with a smooth outer surface.